



CloudSat and GLOBE

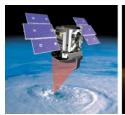


GLOBE students
make cloud
observations and
collect data for their
research as well as
provide ground-based
observations to
CloudSat scientists.



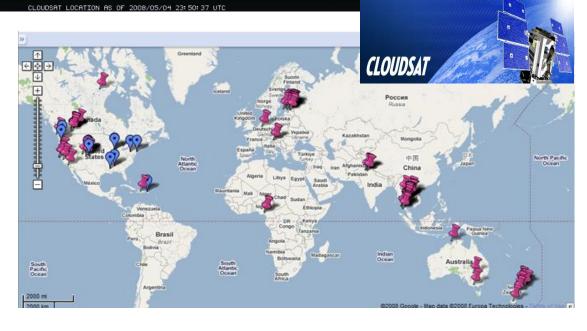
Every 16 days, after 233 revolutions of the Earth, CloudSat crosses the equator at exactly the same geographic longitude as it did before.



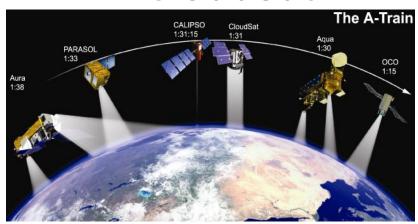








CEN schools observing clouds along with CloudSat









CEN Leads and Coordinators



- Dr. Todd Ellis, Dept. Of Earth Sciences SUNY College at Oneonta, New York
- Mrs. Deana Tebockhorst, CloudSat Outreach Coordinator, Colorado State University
- Mr. Peter Falcon, Earth Science Education and Public Outreach JPL, Pasadena California



CEN Colorado GLOBE Partners





Colorado State University

Colorado held 8 workshops last year.









California GLOBE Partner



- JPL Open House (May 14-15, 2011): Cloudsat Education & Public Outreach will once again support JPL's annual Open House. The 2 day event reaches a broad audience of 30,000-50,000 from Northern California to Baja California. This year a 20' x 30' Earth science activities area will be available, we could potentially use this area to demo GLOBE protocols or other activities. Suggestions welcomed!
- Wagner Ranch School Presentation: Dr. Todd Ellis and Peter Falcon presented to a GLOBE/CEN school Wagner Ranch Elementary in Orinda CA. Dr. Ellis demonstrated hands on activities in atmospheric pressure, how to make a cloud in a bottle, and demonstrated the difference between scattering and absorption of light in the atmosphere
- GLOBE Partnership in CA.: Thanks to the GLOBE helpdesk I have received 4 inquires from teachers and fellow NASA outreach coordinators from Southern California to be trained in GLOBE protocols, and become GLOBE partners (Great News!). NASA works slow (Bad News ☺). I'm still waiting for approval to purchase GLOBE kit.



Dr. Matt Rogers at last years
Open House



Dr. Todd Ellis presenting at Wagner Ranch Elementary Sch. at last years AGU conference



Current Activities

- Training for using CEN, NASA, GLOBE data in classroom, especially related to clouds
- Coupling CEN/GLOBE observations to remote sensing data for schools in CEN
- Encouraging more inquiry training on how to ask answerable scientific questions – focus of our Calgary PD event and most future trainings







Teaching Inquiry using NASA Earth System Science



- New (soon to be funded) NASA grant to formally tie NASA and GLOBE Earth Science together for pre- and in-service teachers
- Introducing a newer model of PD in the form of a 5-week mini-course for pre-service teachers and 3-4 day workshops on combining GLOBE observations with existing NASA resources and data
- We will also develop an active online teaching and learning cohort to facilitate connections with NASA scientists, sharing learning activities, and virtual student poster sessions
- We also plan to establish an equipment grant program for higher-need schools who wish to get established as new GLOBE and CloudSat schools